FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE			ATTY DOCKET NO. 02910.000110.				
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		3	SZU.S. PATENT DOCUMENTS				
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
Кc	2003/0048057 A1	03/13/03	Oyama et al.	313	311	-	
Ke.	2002/0009637 A1	01/24/02	Murakami et al.	429	213		
KC	5,847,495	12/08/98	Yamanobe et al.	313	310		
K.C	2002/0132041 A1	09/19/02	Yamanobe et al.	427	77		
κc	6,246,168 B1	06/12/01	Kishi et al.	313	495	_	
kc	6,179,678 B1	01/30/01	Kishi et al.	445	24		
KC	6,147,449	11/14/00	lwasaki et al.	313	495		
kc	6,171,162 B1	01/09/01	lwasaki et al.	445	6	-	
kc	5,588,893	12/31/96	Kaftanov et al.	445	6	رَ	
<u> </u>			FOREIGN PATENT DOCUMENTS				
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION VES/NO/ OR ABSTRACT	
kc .	2000-95509	04/04/00	Japan	C01B	31/02	Abst. & Counterpart U.S. Palent 6,455,021	
KC	1 291 889 A2	03/12/03	EPO	H01J	1/304	English	
KC	0 913 508 A2	05/06/99	EPO	D01F	9/127	English	
KC	1 187 161 A2	03/13/02	EPO	H01J	3/02	English	
KC	1 245 704 A2	10/02/02	EPO	D01F	9/127	English	
ke	WO 01/95360	12/13/01	PCT	<u> </u>		English	
		OTHER DOCUMENT	T(S) (Including Author, Title, Date, Perlinent Pages, Etc.)				
kç	C.A Spindt et al., P Cones, Journal of I	C.A. Spindt et al., Physical Properties of Thin-Film Field Emission Cathodes with Molybdenum Cones, Journal of Applied Physics, Vol. 47, No. 12, pp. 5248-5263 (1976)					
KC	S. lijima, Helical Microtubules of Graphitic Carbon, Nature, Vol. 354, pp. 56-58 (1991)						
EXAMINER	lent e	2 <	DATE CONSIDERED 10/8/0				

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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PATENT AND TRADEMARK OFFICE		APPLICANT Kazunari Oyama et al.				
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L		100.	U.S. PATENT DOCUMENTS			
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Ke	5,986,389	11/16/99	Tsukamoto	313	310	(
KC	6,231,413 B1	05/15/01	Tsukamoto	445	24	-
KC	6,184,610 B1	02/06/01	Shibata et al.	313	309	
K.C	6,472,814 B1	10/29/02	Yamanobe et al.	313	495	7
KC	6,288,494 B1	09/11/01	Tsukamoto et al.	315	169.1	-
kc	2002/0057045 A1	05/16/02	Tsukamoto	313	309	
kc.	2002/0074947 A1	06/20/02	Tsukamoto	315	169.3	7
KC	2002/0060516 A1	05/23/02	Kawate et al.	313	495	7
kc	2002/0031972 A1	03/14/02	Kitamura et al.	445	3	7
ke	2003/0006684 A1	01/09/03	Kawate et al.	313	311	<u> </u>
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·	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
kc	1 291 891 A2	03/12/03	EPO	H01J	3/02	English
kc	.1 122 344 A2	08/08/01	EPO	D01F	9/127	English
KC	0 809 854	11/08/00	EPO	. —]	_	English
kc	2003-536215	12/02/03	Japan			Abstract
 	1	OTHER DOCUMENT	(S) (Including Author, Title, Date, Pertinent Pages, Etc.)			
لاد	Nikkei Mechanical,	No. 567, pp.36	-57 (2001)			- <u>- </u>
ke	V. Semet et al., Field Electron Emission from Individual Carbon Nanotubes of a Vertically Aligned Array, Applied Physics Letters, Vol. 81, No. 2, pp. 343-345 (2002)					
ىد.و	P. Collins et al., Un	nique Character	ristics of Cold Cathode Carbon-Nanot , pp. 9391-9399 (1997)	lube-Mati	rix Field E	Emitters,
EXAMINER	Las e DATE CONSIDERED 10/8/05					

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Kc	2003/0057860 A1	03/27/03	Tsukamoto	315	169.3		
KC	2003/0048055 A1	03/13/03	Ishikura et al.	313	311	7	
kc	2003/0162464 A1	08/28/03	Kyogaku et al.	445	24		
KC	4,904,895	02/27/90	Tsukamoto et al.	313	336		
kc	6,515,640 B2	02/04/03	Tsukamoto et al.	345	75.2	-	
kc	6,626,719 B2	09/30/03	Ono et al.	445	24		
KC	2003/0048056 A1	03/13/03	Kitamura et al.	313	311	~	
KC	2003/0124944 A1	07/03/03	Kyogaku et al.	445	6		
KC	2003/0048057 A1	03/13/03	Oyama et al.	313	311	· - 7	
Kc.	2002/0047513 A1	04/25/02	Nomura	313	495	ĵ	
kc	6,628,053 B1	09/30/03	Den et al.	313	310	-	
kc	6,645,028 81	11/11/03	Dean et al.	445	6		
Kc	5,973,446	10/26/99	Kaftanov et al.	313	309		
KC	5,872,422	02/16/99	Xu et al.	313	311	-	
kc	5,773,921	06/30/98	Keesmann et al.	313	309		
Kc	6,455,021 B1	09/24/02	Saito	423	447.3	· —	
kζ	5,973,444	10/26/99	Xu et al.	313	309		
		OTHER DOCUME	NT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)				
KC	X. Xu et al., A Method for Fabricating Large-Area, Patterned, Carbon Nanotube Field Emitters" Applied Physics Letters, Vol. 74, No. 17, pp. 2549-2551 (1999)						
kc	Y. C. Choi et al., Controlling the Diameter, Growth Rate, and Density of Vertically Aligned Carbon Nanotubes Synthesized by Microwave Plasma-Enhanced Chemical Vapor Deposition", Applied Physics Letters, Vol. 76, No. 17, pp.2367-2369 (2000)						
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KC	2004-0063839	4/04	Kawate et al.	524	439	
kc	2004-0155567	8/04	Kyogaku et al.	313	310	
KC	2004-0183422	9/04	Kuroda et al.	313	310	
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XC	6,380,914 B1	4/02	Xie	345	75.2	
KC	6,225,749 B1	5/01	Kobayashi, et al.	315	169.3	
XC -	6,409,563 B1	6/02	Tamura, et al.	445	3	
KC	6,490,433 B1	12/02	Kawade	455	6	
KC	6,231,412 B1	5/01	Kawade, et al.	445	3	7
KC .	6,388,384 B1	5/02	Pierrejean	315	111.81	
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